

Work Order ID 102556

Tuesday, June 04, 2013 3:40:12 PM

102556

Page 1

Item ID: 647.1301

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: EC145 Cable Cutter

Start Date: 5/31/2013 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 6/3/2013 Req'd Qty: 1.00 *1*

Customer: CU-DAR001

Reference: RMA RA111526

Approvals: Process Plan: *umf*

Date: 13-6-4

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

647.1300

A

0.00

100

100

QC

Quality Control

Memo

INSPECT RA 111526 :
647.1301 X 1 M12352

KIT IS COMPLETE
ONLY NEED TO REPLACE :
600.1012 SEALANT
600.0991 MAGNABOND 6398 PART B
600.0990 MAGNABOND 6398 PART A

ID AND STOCK UNDER NEW BATCH NUMBER

110

110

Packaging

Packaging

Identify as per dwg & Stock Location:

0.00

Memo

0.00

DAS
27
0-29

SEP 06 2017

513105128

647.1401

(119823)

126215

apical
lot #

BS1977

x 1. part was taken
for a customer &
needs to be replaced

fs 102

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 102556

Tuesday, June 04, 2013 3:40:12 PM

102556

Page 2

Item ID: 647.1301

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: EC145 Cable Cutter

Start Date: 5/31/2013 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 6/3/2013 Req'd Qty: 1.00 ***1***

Customer: CU-DAR001

Reference: RMA RA111526

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
---------	--------	-----------	------------	------------	---------------	-------------

120

QC21- Final Inspection - Work Order Release

0.00

120

QC

Memo

0.00

Quality Control

REMOVE FROM KIT AND ADD NEW :

600.1012 SEALANT

B#

600.0991 MAGNABOND 6398 PART B

B#

600.0990 MAGNABOND 6398 PART A

B#

600 2045

DAS
21
9-89

SEP 06 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

Picklist Print

Tuesday, June 04, 2013 3:40:12 PM

Page 1

Work Order ID: 102556
Parent Item: 647.1301
Parent Item Name: EC145 Cable Cutter

Start Date: 5/31/2013

Required Date: 6/3/2013

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0990 Magnabond 6398 Part A (One 4 oz can)		Purchased	No				Each	5.0000		1			
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST438		5							
				M125865		5							
600.0991 Magnabond 6398 Part B (One 4 oz can)		Purchased	No				Each	5.0000		1			
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST438		5							
				M125865		5							
600.1012 Sealant (One 6 oz Semkit)		Purchased	No				Each	94.0000		1			
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST		94							
				125540		79							
				25306		15							
647.1301 EC145 Cable Cutter		Manufactured	No				Each	1.0000		1			
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST139C		1							
				125082		1							

B137495

DAS
28
9-89

B137495

DAS
28
9-89

SEP 06 2017

DAS
27
9-89

601 1012 138084 exp DATE 12/18

DAS
6
9-89

DAS
27
9-89

647.1401 x 1 9/977 *must be compatible to Apical.

SEP 06 2017

DAS
27
9-89

647-2111 123754 x2

DAS
6
9-89

123754

DAS
27
9-89

601-2045 137538

SEP 06 2017

DAS
27
9-89

A - Abute

647-3047K/

DAS
6
9-89

130388

MS212 66-2N

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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RA 111526 647.1301 Cable **Cutter**

Received @ Dart May 27th, 2013
Inspected @ Dart May 28th, 2013

CUSTOMER: UNITED ROTORCRAFT SOLUTIONS
CUSTOMER CONTACT: JOSH BRIGHAM
SHIPPED FROM: DECATUR TX, USA

Instructions for RA 111526 647.1301

- Kit was original supplied from Apical
- Kit is complete
 - The following are expired or will be soon and need to be replaced
 - 600.1012 SEALANT
 - 600.0991 MAGNOBOND 6398 PART B
 - 600.0990 MAGNOBOND 6398 PART A
- Kit will need new labels and paper work
- Will need new Batch # for restocking

Time Estimate = 1 HOUR ONLY (stores)

Departments Required: Stores (restocking)

Pictures Attached = NO

QTY INSPECTED = x1 647.1301

**THIS INSTRUCTION SHEET MUST
BE ATTACHED TO THE
RESTOCKING WORK ORDER AT
ALL TIMES!!!!**

Apical Industries, Inc.

CCK #

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

MANUFACTURING - ROUTE SHEET

PAGE: 1 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:13 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.:

006

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
1	BUILD SUB-ASSY BOM: Assembly:647.1401 CUTTER ASSY (UPPER) Ctrl # 119823 Qty Per: 1 Qty Need: 2 UOM: EA MO#:M12252-1 Start Work: Stop Work:	TA	02/20/13	1	1	0
2	BUILD SUB-ASSY BOM: Assembly:647.1402 CUTTER ASSY (LOWER) Ctrl # 120318 Qty Per: 1 Qty Need: 2 UOM: EA MO#:M12252-2 Start Work: Stop Work:	TA	02/20/13	1	1	0
5	BUILD SUB-ASSY BOM: Assembly:647.3201 GROUNDING CABLE ASSY Ctrl # 77284 Qty Per: 1 Qty Need: 2 UOM: EA MO#:M12252-3 Start Work: Stop Work:	TA	02/20/13	1	1	0
10	INVENTORY OUT BOM: 601.2764 WASHER (NAS1149FN832P) Ctrl # 119840 Qty Per: 18 Qty Need: 36 UOM: EA Start Work: Stop Work:	TA	02/20/13	18	18	0
NOTES: "DO NOT SUBMIT R.O.P. CARDS"						
				2-21-13 		NEXT HIGHER MO#:N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 2 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:14 AM

Qty Required: 2

Qty Comp

Date 02/20/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3008 INSERT CTRL# 102182 Qty Per: 2 Qty Need: 4 UOM: EA	TA	02/20/13	2	2	0
	BOM: 601.2051 SCREW CTRL# 76801 Qty Per: 10 Qty Need: 20 UOM: EA	TA	02/20/13	10	10	0
	BOM: 601.2364 CR3213-4-8 RIVET UNIVERS. HEAD CHERYMAX 100EA/PKG CTRL# 60032 Qty Per: 12 Qty Need: 24 UOM: EA	TA	02/20/13	12	12	0
	BOM: 601.2823 BOLT CTRL# 114448 Qty Per: 2 Qty Need: 4 UOM: EA	TA	02/20/13	2	2	0
	BOM: 647.1911 BRACKET, RH CTRL# 75223 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02/20/13	1	1	0
	BOM: 647.1814 GUSSET, LH CTRL# 80043 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02/20/13	1	1	0
	BOM: 601.1183 CHERRYMAX RIVET CTRL# 110610 Qty Per: 8 Qty Need: 16 UOM: EA	TA	02/20/13	8	8	0
	BOM: 600.1012 SEALANT PR-1425B2 CTRL# 118955 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02/20/13	1	1	0
	BOM: 647.1815 GUSSET, RH CTRL# 80043 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02/20/13	1	1	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

2-21-13
APICAL INDUSTRIES, INC.
QA DEPT.

NEXT
HIGHER
MO# N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 3 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:15 AM

Qty Required: 2

Qty Comp

Date 02-20-13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3010 SCREW (MS27039-0810) CTRL # 46975 Qty Per: 4 Qty Need: 8 UOM: EA	TA	02-20-13	4	4	0
	BOM: 600.0991 MAGNOBOND 6398 PART B CTRL # 120551 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02-20-13	1	1	0
	BOM: 647.1601 WIPER DEFLECTOR ASSY. AFT CTRL # 79815 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02-20-13	1	1	0
	BOM: 600.0795 NUT PLATE MS21047-3 CTRL # 116058 Qty Per: 12 Qty Need: 24 UOM: EA	TA	02-20-13	12	12	0
	BOM: 647.1817 SUPPORT. RH CTRL # 76264 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02-20-13	1	1	0
	BOM: 601.0790 RIVET CR3213-4-3 CTRL # 114841 Qty Per: 22 Qty Need: 44 UOM: EA	TA	02-20-13	22	22	0
	BOM: 647.2011 LOWER STRUT CTRL # 97035 Qty Per: 2 Qty Need: 4 UOM: EA	TA	02-20-13	2	2	0
	BOM: 601.1607 WASHER, CAD ONLY REQUIRED, 98017A635, AN960-10L, NA CTRL # 115478 Qty Per: 102 Qty Need: 204 UOM: EA	TA	02-20-13	102	102	0
	BOM: 647.2110 LOWER RAIL CTRL # 96835 Qty Per: 1 Qty Need: 2 UOM: EA	TA	02-20-13	1	1	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

2-21-13

APICAL
GAS
ACCEPT

NEXT
HIGHER
MO# N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 4 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

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Qty Required: 2

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Rev.: A

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NOTES:
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SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 647.1812 SHIM Qty Per: 13 Qty Need: 26 UOM: EA Ctrl # 80043	T.A.	02-20-13	13	13	0
	BOM: 601.2207 RIVET CCR264SS3-3 Qty Per: 12 Qty Need: 24 UOM: EA Ctrl # 98578	T.A.	02-20-13	12	12	0
	BOM: 647.2510 SLEEVE Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 79826	T.A.	02-20-13	4	4	0
	BOM: 601.3006 26R16-1 CAMLOC RECEPTACLE Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 80038	T.A.	02-20-13	2	2	0
✓	BOM: 647.1602 DOUBLER ASSY Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 79634	T.A.	02-20-13	1	1	0
	BOM: 647.1813 ANGLE Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 76264	T.A.	02-20-13	2	2	0
	BOM: 647.1811 SPACER Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 80043	T.A.	02-20-13	2	2	0
✓	BOM: 647.2111 UPPER RAIL Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 76702	T.A.	02-20-13	1	1	0
	BOM: 647.2201 CROSS ASSY Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 77552	T.A.	02-20-13	1	1	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

APICAL INDUSTRIES, INC.
2-21-13

NEXT
HIGHER
MO# N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 5 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:16 AM

Qty Required: 2

Qty Comp

Date: 02-20-13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 647.2010 UPPER STRUT Qty Per: 2 Qty Need: 4 UOM: EA CTRL # 98190	T A	02-20-13	2	2	0
	BOM: 601.1952 SCREW MS27039-1-20 Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 103655	T A	02-20-13	4	4	0
	BOM: 601.2973 LOCKNUT (MS21042-08) Qty Per: 9 Qty Need: 18 UOM: EA Ctrl # 98578	T A	02-20-13	9	9	0
	BOM: 601.1983 RIVET (CCR274SS-3-3) Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 78086	T A	02-20-13	4	4	0
	BOM: 601.3007 MS21266-2N GROMMET (S/B IN FT.) Qty Per: 1.1 Qty Need: 2.2 UOM: FT CTRL # 77093	T A	02-20-13	1.1	1.1	0
	BOM: 601.2999 SCREW (92000A330) Qty Per: 3 Qty Need: 6 UOM: EA Ctrl # 77998	T A	02-20-13	3	3	0
	BOM: 601.2198 SCREW MS27039-1-07 Qty Per: 3 Qty Need: 6 UOM: EA Ctrl # 110033	T A	02-20-13	3	3	0
	BOM: 601.2995 RIVET Qty Per: 8 Qty Need: 16 UOM: EA CTRL # 47042	T A	02-20-13	8	8	0
	BOM: 601.3224 SCREW Qty Per: 4 Qty Need: 8 UOM: EA CTRL # 76801	T A	02-20-13	4	4	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

2-21-13
APICAL
DATE
ACCEPT

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 6 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:17 AM

Qty Required: 2

Qty Comp

Date 02/20/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3002 BOLT (NAS6604-66) Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 99014	T.A.	02/20/13	4	4	0
	BOM: 647.0112 STRUT BRACKET Qty Per: 8 Qty Need: 16 UOM: EA Ctrl # 101320	T.A.	02/20/13	8	8	0
	BOM: 601.2943 LOCKNUT (MS21042-3) Qty Per: 45 Qty Need: 90 UOM: EA Ctrl # 98540	T.A.	02/20/13	45	45	0
	BOM: 647.1818 NOSE DOOR SPACER Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80134	T.A.	02/20/13	1	1	0
	BOM: 601.3012 SCREW Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 95512	T.A.	02/20/13	4	4	0
	BOM: 647.2511 NUT Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 78687	T.A.	02/20/13	4	4	0
	BOM: 601.1622 SCREW Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 116378	T.A.	02/20/13	4	4	0
	BOM: 601.2991 RIVET (CR3213-4-6) Qty Per: 11 Qty Need: 22 UOM: EA Ctrl # 87925	T.A.	02/20/13	11	11	0
	BOM: 601.1954 SCREW MS27039-1-17 Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 107066	T.A.	02/20/13	2	2	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

2-21-13

APICAL
INDUSTRIES
LOCALITY

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 7 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:18 AM

Qty Required: 2

Qty Comp

Date 02/20/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 0006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3209 LOCKNUT Qty Per: 4 Qty Need: 8 UOM: EA CTRL# 118934	T.A.	02/20/13	4	4	0
	BOM: 647.1913 TEE Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80024	T.A.	02/20/13	1	1	0
	BOM: 601.2468 RIVET CR3213-4-07 Qty Per: 16 Qty Need: 32 UOM: EA CTRL# 7045	T.A.	02/20/13	16	16	0
	BOM: 600.0990 MAGNOBOND 6398 PART A Qty Per: 1 Qty Need: 2 UOM: EA CTRL# 120551	T.A.	02/20/13	1	1	0
	BOM: 601.3004 26S8-11 CAMLOC STUD Qty Per: 2 Qty Need: 4 UOM: EA CTRL# 78881	T.A.	02/20/13	2	2	0
	BOM: 601.3011 P-SEAL (S/B IN FT.) Qty Per: 3 Qty Need: 6 UOM: FT CTRL# 77014	T.A.	02/20/13	3	3	0
	BOM: 647.1914 BRACKET Qty Per: 1 Qty Need: 2 UOM: EA CTRL# 80048	T.A.	02/20/13	1	1	0
	BOM: 601.1915 RIVET CR3213-4-4 Qty Per: 4 Qty Need: 8 UOM: EA CTRL# 98578	T.A.	02/20/13	4	4	0
	BOM: 601.3005 2600-L-W CAMLOC RETAINER Qty Per: 2 Qty Need: 4 UOM: EA CTRL# 78164	T.A.	02/20/13	2	2	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

2-21-13



NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 8 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:19 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.:

006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 647.1816 SUPPORT, LH Qty Per: 1 Qty Need: 2 UOM: EA CTRL # 78264	TA	02/20/13	1	1	0
	BOM: 647.1912 BRACKET, LH Qty Per: 1 Qty Need: 2 UOM: EA CTRL # 75223	TA	02/20/13	1	1	0
	BOM: 601.2375 WASHER 90965A160 Qty Per: 3 Qty Need: 6 UOM: EA Ctrl # 74487	TA	02/20/13	3	3	0
	BOM: 601.1324 BOLT (AN4CH6A) Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 81101	TA	02/20/13	1	1	0
	BOM: 601.1874 BOLT AN3C-10A Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 117511	TA	02/20/13	2	2	0
	BOM: 647.1915 SUPPORT ANGLE Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80012	TA	02/20/13	1	1	0
	BOM: 601.2459 SCREW PAN HEADMS27039C1-06 Qty Per: 18 Qty Need: 36 UOM: EA Ctrl # 76107	TA	02/20/13	18	18	0
	BOM: 601.2826 BOLT Qty Per: 16 Qty Need: 32 UOM: EA Ctrl # 111056	TA	02/20/13	16	16	0
	BOM: 601.1365 SCREW (MS27039-1-10) Qty Per: 6 Qty Need: 12 UOM: EA Ctrl # 111252	TA	02/20/13	6	6	0

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

2.21-13

NEXT
HIGHER
MO# N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 9 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:19 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.:

006

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.2525 SCREW MS27039-0807 Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 22716	TA	02-2013	1	1	0
	BOM: 647.1810 NOSE DOOR DOUBLER Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80043	TA	02-2013	1	1	0
	BOM: 647.1701 SKID DEFLECTOR ASSY Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 120654	TA	02-2013	2	2	0
	BOM: 647.1610 WIPER DEFLECTOR, FWD Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80205	TA	02-2013	1	1	0
	BOM: 601.2638 NAS1149F0432P Qty Per: 8 Qty Need: 16 UOM: EA Ctrl # 118934	TA	02-2013	8	8	0
	BOM: 601.1039 RIVET (CR3213-4-2) Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 95512	TA	02-2013	2	2	0
	BOM: 647.1910 CLIP Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 76831	TA	02-2013	4	4	0
	BOM: 601.2045 RTV (LOCTITE 598) Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 114880	TA	02-2013	1	1	0
	BOM: 601.2980 NUTPLATE RIVET (CCR264SS-3-04) Qty Per: 12 Qty Need: 24 UOM: EA Ctrl # 93767	TA	02-2013	12	12	0

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

WIP
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2-21-13

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE:10 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:20 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.:

CCG

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
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Start Work:



Stop Work:



NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

2-21-13
APICAL INDUSTRIES, INC.
MO# N/A

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

CCK #

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

MANUFACTURING - ROUTE SHEET

PAGE: 1 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:05 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.:

005

SEQ	OPERATIONS		Ctrl Number	Qty Accepted	Qty Rejected
1	BUILD SUB-ASSY		Ctrl Number 119823	1	0
	BOM: Assembly: 647.1401 CUTTER ASSY (UPPER)				
	Qty Per: 1 Qty Need: 2 UOM: EA MO#: M12252-1				
	Start Work:				
2	BUILD SUB-ASSY		Ctrl # 120318	1	0
	BOM: Assembly: 647.1402 CUTTER ASSY (LOWER)				
	Qty Per: 1 Qty Need: 2 UOM: EA MO#: M12252-2				
	Start Work:				
5	BUILD SUB-ASSY		Ctrl # 119269	1	0
	BOM: Assembly: 647.3201 GROUNDING CABLE ASSY				
	Qty Per: 1 Qty Need: 2 UOM: EA MO#: M12252-3				
	Start Work:				
	Stop Work:				
10	INVENTORY OUT		Ctrl # 119840	18	0
	BOM: 601.2764 WASHER (NAS1149FN832P)				
	Qty Per: 18 Qty Need: 36 UOM: EA				
	2/21/13				
NOTES:			NEXT HIGHER MO#: N/A		

Dave here
one control #s
Requested. I was
gonna scan it but
I think it would be to
big of a file.
Jesus

T.A 2/14-13

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 2 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:05 AM

Qty Required: 2

Qty Comp

Date
2-19-2013

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 005

NOTES:

" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3008 INSERT CTRL 102182 Qty Per: 2 Qty Need: 4 UOM: EA	TA	2-19-13	2	2	0
	BOM: 601.2051 SCREW CTRL # 76801 Qty Per: 10 Qty Need: 20 UOM: EA	TA	2-19-13	10	10	0
	BOM: 601.2364 CR3213-4-8 RIVET UNIVERS. HEAD CHERYMAX 100EA/PKG CTRL # 66760 Qty Per: 12 Qty Need: 24 UOM: EA	TA	2-19-13	12	12	0
	BOM: 601.2823 BOLT CTRL # 114448 Qty Per: 2 Qty Need: 4 UOM: EA	TA	2-19-13	2	2	0
	BOM: 647.1911 BRACKET, RH Ctrl # 76223 Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
	BOM: 647.1814 GUSSET, LH Ctrl # 80043 Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
	BOM: 601.1183 CHERRYMAX RIVET CTRL # 110610 Qty Per: 8 Qty Need: 16 UOM: EA	TA	2-19-13	8	8	0
	BOM: 600.1012 SEALANT PR-1425B2 CTRL # 118955 APICAL QA 15 ACCEPT Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
	BOM: 647.1815 GUSSET, RH Ctrl # 80043 2/21/13 Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0

NOTES:

" DO NOT SUBMIT R.O.P. CARDS"

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 3 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:06 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 005

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3010 SCREW (MS27039-0810) <i>Ctrl # 46475</i> Qty Per: 4 Qty Need: 8 UOM: EA	TA	2-19-13	4	4	0
	BOM: 600.0991 MAGNOBOND 6398 PART B <i>Ctrl # 120551</i> Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
	BOM: 647.1601 WIPER DEFLECTOR ASSY, AFT <i>Ctrl # 79815</i> Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
	BOM: 600.0795 NUT PLATE MS21047-3 <i>Ctrl # 116058</i> Qty Per: 12 Qty Need: 24 UOM: EA	TA	2-19-13	12	12	0
	BOM: 647.1817 SUPPORT, RH <i>Ctrl # 76264</i> Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
	BOM: 601.0790 RIVET CR3213-4-3 <i>Ctrl # 114841</i> Qty Per: 22 Qty Need: 44 UOM: EA	TA	2-19-13	22	22	0
	BOM: 647.2011 LOWER STRUT <i>Ctrl # 97035</i> Qty Per: 2 Qty Need: 4 UOM: EA	TA	2-19-13	2	2	0
	BOM: 601.1607 WASHER, CAD ONLY REQUIRED, 98017A635, AN960-10L, NA <i>Ctrl # 115478</i> Qty Per: 102 Qty Need: 204 UOM: EA	TA	2-19-13	102	102	0
	BOM: 647.2110 LOWER RAIL <i>Ctrl # 98849</i> Qty Per: 1 Qty Need: 2 UOM: EA	TA	2-19-13	1	1	0
NOTES:	"DO NOT SUBMIT R.O.P. CARDS"					NEXT HIGHER MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 4 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:07 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.:

005

NOTES:
" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 647.1812 SHIM Qty Per: 13 Qty Need: 26 UOM: EA Ctrl # 80043	TA	2-19-2013	13	13	0
	BOM: 601.2207 RIVET CCR264SS3-3 Qty Per: 12 Qty Need: 24 UOM: EA Ctrl # 98578	TA	2-19-2013	12	12	0
	BOM: 647.2510 SLEEVE Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 79826	TA	2-19-13	4	4	0
	BOM: 601.3006 26R16-1 CAMLOC RECEPTACLE Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 80038	TA	2-19-13	2	2	0
	BOM: 647.1602 DOUBLER ASSY Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 79634	TA	2-19-13	1	1	0
	BOM: 647.1813 ANGLE Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 76264	TA	2-19-13	2	2	0
	BOM: 647.1811 SPACER Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 80043	TA	02-19-13	2	2	0
	BOM: 647.2111 UPPER RAIL Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 76702	TA	02-19-13	1	1	0
	BOM: 647.2201 CROSS ASSY Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 77552	TA	02-19-13	1	1	0

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NOTES:

" DO NOT SUBMIT R.O.P. CARDS"

NEXT
HIGHER
MO#: N/A

Apica Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 5 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:08 AM

Qty Required: 2

Qty Comp

Date 02/19/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: CC5

NOTES:
" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 647.2010 UPPER STRUT Qty Per: 2 Qty Need: 4 UOM: EA CTRL # 98190	T.A.	02/19/13	2	2	0
	BOM: 601.1952 SCREW MS27039-1-20 Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 103655	T.A.	02/19/13	4	4	0
	BOM: 601.2973 LOCKNUT (MS21042-08) Qty Per: 9 Qty Need: 18 UOM: EA Ctrl # 98578	T.A.	02/19/13	9	9	0
	BOM: 601.1983 RIVET (CCR274SS-3-3) Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 78086	T.A.	02/19/13	4	4	0
	BOM: 601.3007 MS21266-2N GROMMET (S/B IN FT.) Qty Per: 1.1 Qty Need: 2.2 UOM: FT CTRL # 77093	T.A.	02/19/13	1.1	1.1	0
	BOM: 601.2999 SCREW (92000A330) Qty Per: 3 Qty Need: 6 UOM: EA Ctrl # 77998	T.A.	02/19/13	3	3	0
	BOM: 601.2198 SCREW MS27039-1-07 Qty Per: 3 Qty Need: 6 UOM: EA Ctrl # 110033	T.A.	02/19/13	3	3	0
	BOM: 601.2995 RIVET Qty Per: 8 Qty Need: 16 UOM: EA CTRL # 47042	T.A.	02/19/13	8	8	0
	BOM: 601.3224 SCREW Qty Per: 4 Qty Need: 8 UOM: EA CTRL # 76801 APICAL QA 15 ACCEPT 2/21/13	T.A.	02/19/13	4	4	0

NOTES:

" DO NOT SUBMIT R.O.P. CARDS"

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 6 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:09 AM

Qty Required: 2

Qty Comp

Date: 02/19/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 005

NOTES:
"DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3002 BOLT (NAS6604-66) <i>Ctrl # 99014</i>	T.A.	02/19/13	4	4	0
	Qty Per: 4 Qty Need: 8 UOM: EA					
	BOM: 647.0112 STRUT BRACKET <i>Ctrl # 101320</i>	T.A.	02/19/13	8	8	0
	Qty Per: 8 Qty Need: 16 UOM: EA					
	BOM: 601.2943 LOCKNUT (MS21042-3) <i>Ctrl # 98540</i>	T.A.	02/19/13	45	45	0
	Qty Per: 45 Qty Need: 90 UOM: EA					
	BOM: 647.1818 NOSE DOOR SPACER <i>Ctrl # 80134</i>	T.A.	02/19/13	1	1	0
	Qty Per: 1 Qty Need: 2 UOM: EA					
	BOM: 601.3012 SCREW <i>Ctrl # 119966</i>	T.A.	02/19/13	4	4	0
	Qty Per: 4 Qty Need: 8 UOM: EA					
	BOM: 647.2511 NUT <i>Ctrl # 80093</i>	T.A.	02/19/13	4	4	0
	Qty Per: 4 Qty Need: 8 UOM: EA					
	BOM: 601.1622 SCREW <i>Ctrl # 116378</i>	T.A.	02/19/13	4	4	0
	Qty Per: 4 Qty Need: 8 UOM: EA					
	BOM: 601.2991 RIVET (CR3213-4-6) <i>Ctrl # 87925</i>	T.A.	02/19/13	11	11	0
	Qty Per: 11 Qty Need: 22 UOM: EA					
	BOM: 601.1954 SCREW MS27039-1-17 <i>Ctrl # 107066</i>	T.A.	02/19/13	2	2	0
	Qty Per: 2 Qty Need: 4 UOM: EA					

APICAL
QA 15
ACCEPT 2/21/13

NOTES:

"DO NOT SUBMIT R.O.P. CARDS"

NEXT
HIGHER
MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 7 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:09 AM

Qty Required: 2

Qty Comp

Date 02/19/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 005

NOTES:

" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.3209 LOCKNUT Qty Per: 4 Qty Need: 8 UOM: EA CTRL # 118934	TA	02/19/13	4	4	0
	BOM: 647.1913 TEE Qty Per: 1 Qty Need: 2 UOM: EA CTRL # 80024	TA	02/19/13	1	1	0
	BOM: 601.2468 RIVET CR3213-4-07 Qty Per: 16 Qty Need: 32 UOM: EA CTRL # 7045	TA	02/19/13	16	16	0
	BOM: 600.0990 MAGNOBOND 6398 PART A Qty Per: 1 Qty Need: 2 UOM: EA CTRL # 120551	TA	02/19/13	1	1	0
	BOM: 601.3004 26S8-11 CAMLOC STUD Qty Per: 2 Qty Need: 4 UOM: EA CTRL # 78881	TA	02/19/13	2	2	0
	BOM: 601.3011 P-SEAL (S/B IN FT.) Qty Per: 3 Qty Need: 6 UOM: FT CTRL # 77998	TA	02/19/13	3	3	0
	BOM: 647.1914 BRACKET Qty Per: 1 Qty Need: 2 UOM: EA CTRL # 80048	TA	02/19/13	1	1	0
	BOM: 601.1915 RIVET CR3213-4-4 Qty Per: 4 Qty Need: 8 UOM: EA CTRL # 98578	TA	02/19/13	4	4	0
	BOM: 601.3005 2600-L-W CAMLOC RETAINER Qty Per: 2 Qty Need: 4 UOM: EA CTRL # 78164 APICAL QA 15 ACCEPT 2/21/13	TA	02/19/13	2	2	0
NOTES:	" DO NOT SUBMIT R.O.P. CARDS"					NEXT HIGHER MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE: 8 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:10 AM

Qty Required: 2

Qty Comp

Date 02/19/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: CC5

NOTES:
" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 647.1816 SUPPORT, LH CTRL # 76264 Qty Per: 1 Qty Need: 2 UOM: EA	T.A.	02/19/13	1	1	0
	BOM: 647.1912 BRACKET, LH CTRL # 75223 Qty Per: 1 Qty Need: 2 UOM: EA	T.A.	02/19/13	1	1	0
	BOM: 601.2375 WASHER 90965A160 CTRL # 82601 Qty Per: 3 Qty Need: 6 UOM: EA	T.A.	02/19/13	3	3	0
	BOM: 601.1324 BOLT (AN4CH6A) CTRL # 81101 Qty Per: 1 Qty Need: 2 UOM: EA	T.A.	02/19/13	1	1	0
	BOM: 601.1874 BOLT AN3C-10A CTRL # 117511 Qty Per: 2 Qty Need: 4 UOM: EA	T.A.	02/19/13	2	2	0
	BOM: 647.1915 SUPPORT ANGLE CTRL # 80012 Qty Per: 1 Qty Need: 2 UOM: EA	T.A.	02/19/13	1	1	0
	BOM: 601.2459 SCREW PAN HEADMS27039C1-06 CTRL # 76107 Qty Per: 18 Qty Need: 36 UOM: EA	T.A.	02/19/13	18	18	0
	BOM: 601.2826 BOLT CTRL # 111056 Qty Per: 16 Qty Need: 32 UOM: EA	T.A.	02/19/13	16	16	0
	BOM: 601.1365 SCREW (MS27039-1-10) CTRL # 111252 Qty Per: 6 Qty Need: 12 UOM: EA	T.A.	02/19/13	6	6	0
NOTES:	" DO NOT SUBMIT R.O.P. CARDS"					NEXT HIGHER MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

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MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:11 AM

Qty Required: 2

Qty Comp

Date: 02/19/13

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: CC5

NOTES:
" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	BOM: 601.2525 SCREW MS27039-0807 Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 22716	TA	02/19/13	1	1	0
	BOM: 647.1810 NOSE DOOR DOUBLER Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80043	TA	02/19/13	1	1	0
	BOM: 647.1701 SKID DEFLECTOR ASSY Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 120654	TA	02/19/13	2	2	0
	BOM: 647.1610 WIPER DEFLECTOR, FWD Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 80205	TA	02/19/13	1	1	0
	BOM: 601.2638 NAS1149F0432P Qty Per: 8 Qty Need: 16 UOM: EA Ctrl # 118934	TA	02/19/13	8	8	0
	BOM: 601.1039 RIVET (CR3213-4-2) Qty Per: 2 Qty Need: 4 UOM: EA Ctrl # 95512	TA	02/19/13	2	2	0
	BOM: 647.1910 CLIP Qty Per: 4 Qty Need: 8 UOM: EA Ctrl # 76831	TA	02/19/13	4	4	0
	BOM: 601.2045 RTV (LOCTITE 598) Qty Per: 1 Qty Need: 2 UOM: EA Ctrl # 114880	TA	02/19/13	1	1	0
	BOM: 601.2980 NUTPLATE RIVET (CCR264SS-3-04) Qty Per: 12 Qty Need: 24 UOM: EA Ctrl # 93767	TA	02/19/13	12	12	0
NOTES:	" DO NOT SUBMIT R.O.P. CARDS"					NEXT HIGHER MO#: N/A

Apical Industries, Inc.

MANUFACTURING - ROUTE SHEET

PAGE 10 of 10

MO#: M12252



PART NO: 647.1301

CUSTOMER:

DESCRIPTION: EC145 CABLE CUTTERS KIT

Qty Per Assy: N/A

Work Type: MORS

Printed: 1/16/2013 9:37:12 AM

Qty Required: 2

Qty Comp

Date

Qty Insp

Rev.: A

ECN #: 03084

Reference:

Serial No.: 005

NOTES:
" DO NOT SUBMIT R.O.P. CARDS"

SEQ	OPERATIONS	Signature	Date	Qty Processed	Qty Accepted	Qty Rejected
	Start Work: 	Stop Work: 				
	APICAL QA 15 ACCEPT 2/21/13					
NOTES:	" DO NOT SUBMIT R.O.P. CARDS"					NEXT HIGHER MO# N/A